

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert Boesel, et al.

Title: MULTI-MODE METHOD AND
APPARATUS FOR
PERFORMING DIGITAL
MODULATION AND
DEMODULATION

Appl. No.: 10/613,476

Filing Date: 7/2/2003

Examiner: Tsang, Fan S.

Art Unit: 2631

Confirmation 9528

Number:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment-IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to

antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

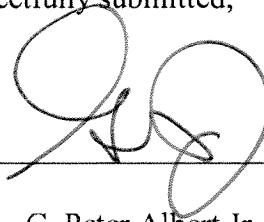
All of the documents are in English and were cited on a PTO-892 for corresponding U.S. Application 10/613,897 filed July 2, 2003.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

By



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Date July 24, 2007

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| Substitute for form 1449/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Application Number | 10/613,476 |
| (use as many sheets as necessary) | | | | Filing Date | 7/2/2003 |
| | | | | First Named Inventor | Robert W. BOESEL |
| | | | | Art Unit | 2631 |
| | | | | Examiner Name | Tsang, Fan S. |
| Sheet | | 1 | of | 1 | Attorney Docket Number |
| | | | | | 029573-0701 |

| U.S. PATENT DOCUMENTS | | | | | |
|------------------------------|-----------------------|--|--------------------------------|--|--|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | A1 | US 4,841,574 | 06-20-1989 | Pham et al. | |
| | A2 | US 6,115,728 | 09-05-2000 | Nakai et al. | |
| | A3 | US 6,122,444 | 09-19-2000 | Shen et al. | |
| | A4 | US 6,615,307 | 09-02-2003 | Roohparvar | |
| | A5 | US 6,650,140 | 11-18-2003 | Lee et al. | |
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| UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | U.S. Patent Application Document | Filing Date of Cited Document MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| FOREIGN PATENT DOCUMENTS | | | | | |
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| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | |
| | | | | | T ⁶ |

| NON PATENT LITERATURE DOCUMENTS | | | | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | T ⁶ |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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